

Amendment to the Claims:

This listing of claims will replace all prior versions and listings, of claims in the application:

Listing of Claims:

Claim 1 (amended)

A system for tracking changes in technical processes, machines or the like having measurement chains for acquiring measured data, having sensors, sensor lines and interpretation electronics, and having governing software, wherein interdependent measured quantities are combined into measurement groups (module 26), wherein validity conditions are defined for the measured data (module 28), wherein the measured data are utilized only if their validity ~~condition~~ conditions are fulfilled, ~~and~~ wherein the measured data of the measurement groups are linked with reference quantities (module 29). and wherein at least one of the validity conditions for the measured data (module 28) is a statistical quantity formed from a dependent measured quantity or a combination of a plurality of dependent measured quantities with a time period as base.

Claim 2 (original)

The system for tracking changes of Claim 1 wherein at least one of the validity conditions for the measured data (module 28) is a value going higher or lower than a special measured value of a measured quantity or a value going higher or lower than a value that is calculated from a plurality of special measured values of a plurality of measured quantities.

Claim 3 (canceled)

Claim 4 (canceled)

Claim 5 (currently amended)

~~The A~~ system for tracking changes ~~of claim 1~~ in technical processes, machines or the like having measurement chains for acquiring measured data, having sensors, sensor lines and interpretation electronics, and having governing software, wherein interdependent measured quantities are combined into measurement groups (module 26), wherein validity conditions are defined for the measured data (module 28), wherein the measured data are utilized only if their validity condition are fulfilled, wherein the measured data of the measurement groups are linked with reference quantities (module 29); and wherein at least one of the validity conditions for the measured data (module 28) is a waiting time that begins upon a value going higher or lower than a measured value of a measured quantity or upon a value going higher or lower than a value that is calculated from a plurality of special measured values of a plurality of measured quantities.

Claims 6 and 7 (canceled)

Claim 8 (currently amended)

~~The A~~ system for tracking changes ~~of claim 1~~ in technical processes, machines or the like having measurement chains for acquiring measured data, having sensors, sensor lines and interpretation electronics, and having governing software, wherein interdependent measured quantities are combined into measurement groups (module 26), wherein validity conditions are defined for the measured data (module 28), wherein the measured data are utilized only if their validity condition are fulfilled, and wherein the measured data of the measurement groups are linked with reference quantities (module 29); and wherein at least one of the validity conditions for the measured data (module 28) is loading.

Claim 9 – 13 (canceled)

Claim 14 (currently amended)

The A system for tracking changes of claim 1 in technical processes, machines or the like having measurement chains for acquiring measured data, having sensors, sensor lines and interpretation electronics, and having governing software, wherein interdependent measured quantities are combined into measurement groups (module 26), wherein validity conditions are defined for the measured data (module 28), wherein the measured data are utilized only if their validity condition are fulfilled, wherein the measured data of the measurement groups are linked with reference quantities (module 29)-, and wherein standardized values of the same measurement group are compressed into standardized statistical values- and wherein time values are provided as basis for said standard statistical values.

Claim 15 (original)

The system for tracking changes of Claim 14 wherein the time values are a selection of the common time quantities such as seconds, minutes, hours, days, weeks, months, years.

Claim 16 (original)

The system for tracking changes of Claim 14 wherein those standardized statistical values for which the trend curve of the standardized statistical values has taken on the character of a straight line whose angle, with allowance for a tolerance, deviates slightly from the horizontal are included in a maintenance list (module 37) with low priority.

Claim 17 (original)

The system for tracking changes of Claim 14 wherein those standardized statistical values for which the trend curve is degressive or progressive or shows abrupt changes are included in a maintenance list (module 37) with high priority.

Claims 18 – 25 (cancelled)